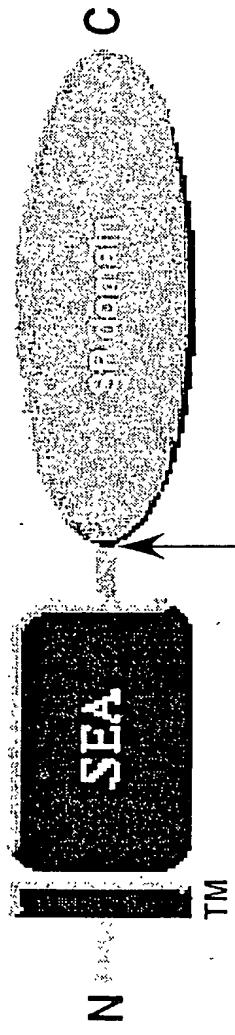


Domain organization and amino acid sequence of MTSP7



1 206 438

10 20 30 40 50 60
MMYTPVEFSEAEFSRAEYQRKQQFWDSVRALALFTLAIVAIIGIAIGIVTHFVVEDDKSFY
70 80 90 100 110 120
YLASFKVTVNIKYKENYGISSREFIERSHQIERTMMSRIFRHSSVGGRFIKSHVIKLSPDE
130 140 150 160 170 180
QGVIDLIVLIRYPSTDSAEQIKKKIEKALYQSLTKQLSLTINKPSFRLTPIIDSKKKMRN
190 200 ↓ 210 220 230 240
LLNSRCGIRMTSSNMPLPASSSTQRIVGRETAMEGEWPWQASLQLIGSGHQCAGSLISN
250 260 270 280 290 300
TWLILTAAHCFWKNKDPTQWIATFGATITPPAVKRNVRKIIHLHENYHRETENDIALVQLS
310 320 330 340 350 360
TGVEFSNIVQRRVCLPDSSIKLPPKTSVFTGFGSIVDDGPIQNTLRQARVETISTDVCNR
370 380 390 400 410 420
KDYYDGLITPGMLCAGFMEGKIDACKGDSGGPLVYDNHDIWYIVGIVSMGOSCALPKPG
430
VYTRVTKYRDWIASKTGM*

↓ = protease cleavage site

1 0 0 0 9 9 7 0 0 . 0 3 1 . 3 0 1 2
SELLER EHRMAN WHITE & MCALIFFE LLP
Sheet 2 of 4
Title: NUCLEIC ACID MOLECULES ENCODING A
TRANSMEMBRANE SERINE PROTEASE 7, THE
ENCODED POLYPEPTIDES AND METHODS BASED
THEREON
Docket No.: 24745-1613, Edwin Madison, et al.
Filed: March 13, 2002

MTSP7/full length cDNA sequence Range: 1 to 2100

10 20 30 40 50 60
 AGATCAGATGGCGACTGAATAGAAGCTGCCAGTCCTGGGTCATGATGTACACACCTG
 TCTAGTCTACCGCTGACTTATCTCGACGGGTCAGGACCCAAGTACTACATGTGTC
 70 80 90 100 110 120
 TTGAATTTCAGAAGCTGAATTCTCACGAGCTGAATATCAAAGAAAGCAGCAATTGGG
 AACTTAAAAGTCTCGACTTAAGAGTGCTGACTTATAGTTCTCGTTAACACCC
 130 140 150 160 170 180
 ACTCACTACGGCTAGCTCTTACATTAGCAATTGTAGCAATCATAGGAATTGCAATTG
 TGAGTCATGCCGATCGAGAAAAGTGAATCGTTAACATCGTTAGTATCCTAACGTTAAC
 190 200 210 220 230 240
 GTATTGTTACTCATTGTTGAGGATGATAAGTCTTCTATTACCTTGCCCTTTTA
 CATAACAATGAGTAAAACAACACTCCTACTATTAGAAGATAATGGAACGGAGAAAAT
 250 260 270 280 290 300
 AAGTCACAAATATCAAATATAAGAAAATTATGCCATAAGATCTCAAGAGAGTTATAG
 TTCAGTGTATAGTTATATTCTTTAACCGTATTCTAGAAGTTCTCTCAAATATC
 310 320 330 340 350 360
 AAAGGAGTCATCAGATTGAAAGAATGATGCTAGGATATTGACATTCTCTGTAGGG
 TTCCCTCAGTAGTCTAACTTTCTACTACAGATCCTATAAGCTGTAAGAAGACATCCGC
 370 380 390 400 410 420
 GTCGATTATCAAATCTCATGTTATCAAATTAAAGTCCAGATGAAACAGGTGTGGATATT
 CAGCTAAATAGTTAGAGTACAATAGTTAACAGTCTACTTGTCCACACCTATAAG
 430 440 450 460 470 480
 TTATAGTGTCTATTCGATACCCATCTACTGATAGTGTGACAAATCAAGAAAAAAA
 AATATCAGGATATAAGCTATGGTAGATGACTATCAGACTTGTGTTAGTTCTTTTT
 490 500 510 520 530 540
 TTGAAAAGGCTTATATCAAAGTTGAAGACCAACAAATTGTCTTGACCATAAACAAAC
 AACCTTCCGAAATATAGTTCAAACCTCTGGTTAACAGAACTGGTATTGTTG
 550 560 570 580 590 600
 CATCATTAGACTCACACCTATTGACAGCAAAAGATGAGGAATCTCTCAACAGTCGCT
 GTAGTAAATCTGAGTGTGGATAACTGTCGTTCTACTCCTAGAAGAGTTGTCAGCGA
 610 620 630 640 650 660
 GTGGAATAAGGATGACATCTCAAACATGCCATTACAGCATCCTCTACTCAAAGAA
 CACCTTATTCTACTGTAGAAGTTGACCGTAATGGCGTAGGAGAAGATGAGTTCTT
 670 680 690 700 710 720
 TTGTCAGGAGGAAACAGCTATGGAAGGGGAATGCCATGGCAGGCCAGCCTCCAGC
 AACAGGTTCTCCCTTGTGATACCTCCCTAACCGTACCGTCCGGTGGAGTC
 730 740 750 760 770 780
 TCATAGGGTCAGGCCATCAGTGTGGAGCCAGCCTCATCAGTAACACATGGCTGCTCACAG
 AGTATCCCGACTCCGGTAGTCACACCTCGGTCGGAGTAGTCATTGTCACCGACGAGTGT
 790 800 810 820 830 840
 CAGCTCACTGTTTGGAAAAAATAAGACCCAACCTCAATGGATTGCTACTTTGGTGC
 GTCAGTGACGAAACCTTTTATTCTGGGTTGAGTTACCTAACGATGAAACACACGTT
 850 860 870 880 890 900
 CTATAACACCACCCGAGTGAACAGGAAATGTGAGGAAAATTATTCTCATGAGAATTAC
 GATATTGTTGAGTGGCGTCACTTGTCTTACACTCCTTTAACGAAAGTACTCTTAAATGG
 910 920 930 940 950 960
 ATAGAGAAAACAATGAAAATGACATTGCTTGGTCAGCTCTACTGGAGTTGAGTTT
 TATCTCTTGTAACTTTACTGTAAACGAAACCAAGTCGAGAGATGACCTCAACTCAAA

970 980 990 1000 1010 1020
CAAATATAGTCAGAGAGTTGCCCTCCAGACTCATCTATAAAAGTGCACCTAAAACAA
GTTTATATCAGGTCTCTAACCGGAGGGCTGAGTAGATATTCAACGGTGGATTTGTT

1030 1040 1050 1060 1070 1080
GTGTGTTCGTCACAGGATTGGATCCATTGTAGATGATGGACCTATACAAATACACTTC
CACACAAGCAGTGTCTAACCTAGTAACATCTACTACCTGGATATGTTTATGTGAAG

1090 1100 1110 1120 1130 1140
GGCAAGCCAGAGTGGAAACCATAAGCACTGATGTGTAAACAGAAAGGATGTGTATGATG
CCGTTCGGTCTACCTTGGTATCGTGACTACACACATTGTTCTACACATACACTAC

1150 1160 1170 1180 1190 1200
GCCTGATAACTCCAGGAATGTTATGTGCTGGATTGATGAAAGGAAAATAGATGCATGTA
CGGACTATTGAGGTCTTACAATACACGACCTAACGACTAAGTACCTCTTTTATCTACGTACAT

1210 1220 1230 1240 1250 1260
AGGGAGATTCTGGTGGACCTCTGGTTATGATAATCATGACATCTGGTACATTGTAGGTA
TCCCTCTAACGACCACCTGGAGACCAAATACTATTAGTACTGTAGACCATGTAACATCCAT

1270 1280 1290 1300 1310 1320
TAGTAAGTTGGGACATCATGTGACTTCCAAAAACCTGGAGTCTACACCAAGAGTAA
ATCATTCAACCCCTGTTACTACACGTGAAGGGTTTTGGACCTCAGATGTGGTCTCATT

1330 1340 1350 1360 1370 1380
CTAAGTATCGAGATTGGATTGCCCTAAAGACTGGTATGTAGTGTGGATTGTCCATGAGTT
GATTCACTAGCTAACCTAACGGAGTTCTGACCATACTCACACCTAACAGGTACTCAA

1390 1400 1410 1420 1430 1440
ATACACATGGCACACAGAGCTGATACTCTCGTATTGTATTGTTAAATTCAATTAC
TATGTGTACCGTGTCTCGACTATGAGGACGCATAAACATAACAAATTAAAGTAAATG

1450 1460 1470 1480 1490 1500
TTGGATTAGTGTCTTGCTAGATGTCAGAGGCCCTCAGACCCAGACAAATCTAATAT
AAACCTAACGAAACGATCTACAGTCTCGGGAAAGTCTGGCTGTGTTAGATTATA

1510 1520 1530 1540 1550 1560
CCTGAGGTGGCCTTACATACGTAGGACCAACCCCTCTACCATGAGGGAGAACAC
GGACTCCACCGGAATGTATGCACTCTGGTTGGAGAGATGGTACTCCCTTCTGTG

1570 1580 1590 1600 1610 1620
AGCAAATGACAGACAGCACCTATTCCTTACTCACAAGGGAAACTGCTTGTGATACTTCCT
TCGTTTACTGTCTGCGATAAGGAATGAGTGTCCCTTGACCAACACTATGAAGGA

1630 1640 1650 1660 1670 1680
AATAAGATAAAATAAGTGGTTCCCTCAATTGAAGACAGGAACATCATTTCACAGGATA
TTATTCTATTATTACCCAAGGGAGTTAACCTGTCTGTAGTAAAGGTGTCTTAT

1690 1700 1710 1720 1730 1740
TGAAGAGCTGCCAGTAATGCCAAAATCTTACCTCATATAAACCTGGAGCATGTGAGATT
ACTCTCGACGGTCAATTACGTTTGAATGGAGTATATTATGGACCTCGTACACTCTAA

1750 1760 1770 1780 1790 1800
CTTCTAGTGAAAAAGAACAGTCTTCCCTGAAGAGACTCAGGGCTTCAACATTCTAGAACTGA
GAAGATCACTTTCTTGTCAAGGGACTCTGAGTCCGAAGTTGTAAGATCTTGTACT

1810 1820 1830 1840 1850 1860
TAAGTGGACCTTCAGTGTCAAGAACATGGAGAACATGGATTGCAATTGACTTGAAC
ATTCACTGGAAAGTCACACGTTCTACCTCTCGTACCCCTAACGTAATACTGAACCTTGA

1870 1880 1890 1900 1910 1920
GGGCTTATATCTAATAATACAGAGCACTATCACTAACCTCAACAGTTGACATTAAAG
CCCCAATATAGATTATTGTCTCGTGTAGTGTGATTGGAGTTGTCAACTGTAAATTTC

HELLER EHRMAN WHITE & MAULIFFE LLP
Title: FATTY ACID MOLECULES ENCODING A
SMEMBRANE SERINE PROTEASE 7, THE
CODED POLYPEPTIDES AND METHODS BASED
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Filed: March 13, 2002

1930 1940 1950 1960 1970 1980
TTTTTAAATGTATCTGAACCTGCTGTTAACACAGTGTATAACTCAAGCACTAGCTTCAG
AAAAAATTACATAGACTTGAACGACAATTGTGTACAATATTGAGTTCGTATCGAAGTC

1990 2000 2010 2020 2030 2040
GAAGCATGTTGTGTTGTTAACAGCTTTCTGATTTATTCTTTAACAGCATTTGCCATC
CTTCGTACAACACAACAAATTCTCGAAAAGACTAAATAAGAAATTGTCGTAGAACGGTAG

2050 2060 2070 2080 2090 2100
TATATGTTAGTAGCAGTTGGCCAGAAAGGACAAAAAAAAAAAAAAAAAAAAAAA
ATATACAATCATCGTCAACCGGGTCTTCCTGTTTTTTTTTTTTTTTTTTTT